# This Page Is Inserted by IFW Operations and is not a part of the Official Record

### BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

# IMAGES ARE BEST AVAILABLE COPY.

As rescanning documents will not correct images, please do not report the images to the Image Problem Mailbox.

### (19) World Intellectual Property Organization International Bureau





#### (43) International Publication Date 12 December 2002 (12.12.2002)

#### **PCT**

## (10) International Publication Number WO 02/098480 A3

(51) International Patent Classification7:

\_ \_ \_

(21) International Application Number: PCT/US02/16567

(22) International Filing Date:

A61M 5/32

•

5 June 2002 (05.06.2002)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

01226524.1

5 June 2001 (05.06.2001) CN

(71) Applicants and

(72) Inventors: WANG, Hsien, Tsung [—/—]; 6 Floor, No. 31-23, Tung Tsun Road, Tai Ping City, Taichung County (TW). CHEN, Chung, Chin [US/US]; 625 Slaters Lane, 4th Floor, Alexandria, VA 22314 (US).

(74) Agents: KENNEY, Ernest, J. et al.; Bacon & Thomas, PLLC, 625 Slaters Lane, 4th Floor, Alexandria, VA 22314 (US).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,

CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

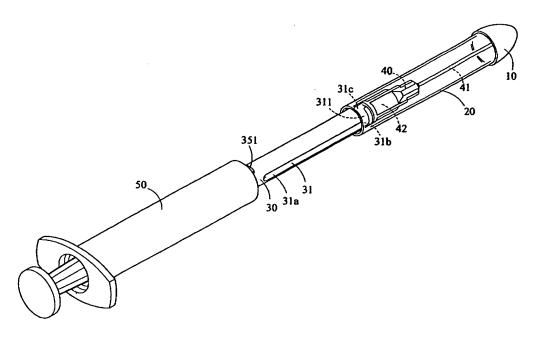
#### Published:

with international search report

(88) Date of publication of the international search report: 14 August 2003

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: SAFETY SYRINGE



(57) Abstract: A safety syringe (fig. 1) comprising a sleeve (20); a hollow barrel (30) including a front nose (33); a needle (40); and a plunger (50) snugly fitted within and slideable through the barrel (30). After use, the plunger (50) may be pulled to cause the barrel (30) to slide rearward until the needle (40) is received in the sleeve (20) again, thereby preventing a medical worker from being contaminated by microorganisms or blood on needle (20) by being accidentally pricked.



02/098480 A3

#### INTERNATIONAL SEARCH REPORT

International application No.

PCT/US02/16567

A. CLASSIFICATION OF SUBJECT MATTER  IPC(7) : A61M 5/32 US CL : 604/197 According to International Patent Classification (IPC) or to both national classification and IPC  B. FIELDS SEARCHED  Minimum documentation searched (classification system followed by classification symbols) U.S.: 604/197, 192, 194-196, 198, 218, 263			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched			
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)			
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.
Х	US 5,498,243 A (VALLELUNGA et al) 12 March 1996, see entire patent.		1-8
A	US 5,795,336 A (ROMANO et al) 18 August 1998, see entire patent.		1-8
A	US 5,290,255 A (VALLELUNGA et al) 1 March 1994, see entire patent.		1-8
A	US 5,232,457 A (GRIM) 3 August 1993, see entire patent.		1-8
A	US 5,019,051 A (HAKE) 28 May 1991, see entire patent.		1-8
A	US 3,487,834 A (SMITH, JR. et al) 6 January 1970, see entire patent.		1-8
		·	
Further	documents are listed in the continuation of Box C.	See patent family annex.	
* S	pecial categories of cited documents:	"T" later document published after the inte	
"A" document defining the general state of the art which is not considered to be of particular relevance		date and not in conflict with the applic principle or theory underlying the inve	ention
"E" earlier ap	plication or patent published on or after the international filing date	"X" document of particular relevance; the considered novel or cannot be conside when the document is taken alone	
establish specified		"Y" document of particular relevance; the considered to involve an inventive step combined with one or more other such	when the document is
"O" , document referring to an oral disclosure, use, exhibition or other means		being obvious to a person skilled in th	e art
"P" document published prior to the international filing date but later than the priority date claimed		"&" document member of the same patent family	
Date of the actual completion of the international search		Date of mailing of the international search report	
01 December 2002 (01.12.2002)  Name and mailing address of the ISA/US  A		Authorized officer	01/2 Cie
Con	nmissioner of Patents and Trademarks	· · · · · · · · · · · · · · · · · · ·	my rox
Box PCT Washington, D.C. 20231		Jeremy Thissell	
		Telephone No. (703) 308-1148	

Form PCT/ISA/210 (second sheet) (July 1998)